WHAT IS CLAIMED IS:

1. A flip-chip package, comprising at least:

a chip having an active surface and bonding pads thereon, wherein the bonding pads are disposed on the active surface;

a substrate having a carrying surface and bump pads thereon, wherein the bump pads are disposed on the carrying surface opposite to the bonding pads;

a plurality of supporters disposed between the chip and the carrying surface and distributed at a periphery of the active surface; and

a plurality of electrically conductive adhesive bumps, each connecting a bonding pad and a corresponding bump pad and having a smaller diameter at a central portion thereof than at end portions thereof.

- 2. The flip-chip package of claim 1, wherein the supporters comprise gold bumps.
- 3. The flip-chip package of claim 1, wherein each electrically conductive adhesive bump comprises a polymeric material doped with a plurality of electrically conductive particles.
- 4. The flip-chip package of claim 3, wherein the electrically conductive particles comprise silver (Ag).
 - 5. A flip-chip packaging process, comprising at least the steps of:

providing a chip and a substrate, wherein the chip has an active surface with bonding pads disposed thereon, and the substrate has a carrying surface with bump pads disposed thereon, wherein locations of the bump pads correspond to locations of the bonding pads; disposing a plurality of supporters at a periphery of the active surface, and forming an uncured electrically conductive adhesive bump on each bump pad;

situating the chip over the carrying surface to contact the carrying surface via the supporters;

pressing the chip toward the substrate to decrease the distance between the active surface and the carrying surface, so as to cause elastic strain in the supporters and increase a contact area between each pair of electrically conductive adhesive bump and bonding pad;

stopping pressing the chip; and

curing the electrically conductive adhesive bumps.

- 6. The flip-chip packaging process of claim 5, wherein disposing the supporters comprises disposing a plurality of gold bumps.
- 7. The flip-chip packaging process of claim 6, wherein disposing the gold bumps comprises:

forming the gold bumps from a plurality of gold wires with a wire bonding method; and

pulling the gold wires apart from the gold bumps.

- 8. The flip-chip packaging process of claim 5, wherein each electrically conductive adhesive bump comprises a polymeric material doped with a plurality of electrically conductive particles.
- 9. The flip-chip packaging process of claim 8, wherein the electrically conductive particles comprise silver (Ag).
- 10. The flip-chip packaging process of claim 5, wherein the electrically conductive adhesive bumps are formed on the bump pads with a screen printing method.